

- A  
cont.
- a) U.S. application serial no. 08/581,240, filed December 29, 1995;
  - b) U.S. application serial no. 08/657,697, filed May 29, 1996;
  - c) U.S. application serial no. 08/747,547, filed November 12, 1996;
  - d) U.S. application serial no. 08/712,710, filed September 12, 1996;
  - e) U.S. application serial no. 08/744,026, filed November 5, 1996;
  - f) U.S. application serial no. 08/786,999, filed January 23, 1997;
  - g) U.S. application serial no. 08/822,262, filed March 20, 1997; and
  - h) U.S. application serial no. 08/000,000 (as yet unassigned), filed October

16, 1997;

which applications are incorporated herein by reference and to which applications we claim priority under 35 USC '120.

---

IN THE CLAIMS

✓  
Please cancel claims 1-32 without prejudice.

Please add the following new claims 33-36:

---

72

33. (New) A method for disease diagnosis, comprising the steps of:  
comparing a first ratio, obtained from a sample comprising non-diseased cells, of a reference RNA, the expression level of which is not expected to be altered in a diseased cell, to a target RNA, the expression level of which is expected to be altered in a disease cell, with a second ratio, obtained from a test sample, of said reference RNA to said target RNA; and  
determining whether there is a statistically-significant difference between said first ratio and said second ratio, the presence of statistically-significant difference being indicative of the presence of diseased cells in said test sample.

34. (New) A method for detecting a difference in RNA expression between first and second samples, comprising the steps of comparing a ratio of a first RNA to a second RNA in a first sample with said ratio in a second sample.

35. (New) A method for identifying a gene, the expression of which is associated with a disease, comprising the steps of comparing a ratio, in a disease sample, of an RNA expression product of said gene to an RNA expression product of a reference gene that is not affected by disease, with said ratio in a non-diseased sample, the presence of a statistically-significant difference between said ratios being indicative of a gene, the expression of which is associated with the disease.

A2  
cont.

36. (New) A method for disease diagnosis, comprising the steps of:

- (a) counting molecules of a first RNA, the expression of which is not different in a diseased cell as compared to a non-diseased cell;
  - (b) counting molecules of a second RNA, the expression of which is expected to be different in a diseased cell as compared to a non-diseased cell;
  - (c) determining whether a statistically-significant difference exists between numbers of said first RNA and said second RNA, the presence of a statistically-significant difference being indicative of a disease.
-